

wherein the track further comprises a flat rigid member having a forward and a rear anchor for attachment to a ski;
wherein the flat rigid member slides in the anchors;
wherein the flat rigid member is controlled by the actuator; and
wherein the actuator further comprises a gas chamber powering a rod connected to the track and a receiver to receive the remote signal and release the actuator from a ski position to a release position.

2. (No Change) An improvement to a ski binding release system, said ski binding release system having a toe piece and a heel piece to hold a boot, the improvement comprising:

a track connected to the heel piece;
an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal;
wherein the actuator further comprises a compressed gas cylinder having a piston connected to the track; and
wherein the compressed gas cylinder further comprises a plug which is connected to a linkage, wherein a receiver receives the remote signal and powers the linkage to unplug from the compressed gas cylinder, thereby allowing a spring to move the actuator from a ski position to a release position.

3. (Amended) A ski binding release system comprising:

a toe and a heel piece;
a mechanism having a gas actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal;
said mechanism having a housing which contains a connector to a track and having a gas chamber which releaseably biases the track against a binding member, and having a receiver to receive a remote signal to release a gas pressure from the gas chamber; and

said track suited to receive either the toe or the heel piece.

4. (Amended) A ski binding release system comprising:

a toe and a heel piece designed to have a mounting distance therebetween to secure a ski boot;

an extension mechanism to release the ski boot by enlarging the mounting distance on demand from a remote signal;

said extension mechanism having a housing to contain a gas chamber, a connector to a track which is biased by the gas chamber, and a receiver which controls a release of a gas pressure from the gas chamber; and

wherein the track further comprises a flat rigid member having a forward and a rear anchor for attachment to a ski, wherein the flat rigid member slides in the anchors controlled by the actuator.

5. (Amended) An improvement to a ski binding release system, said ski binding release system having a toe piece and a heel piece to hold a boot, the improvement comprising:

a track connected to the toe piece;

an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal;

wherein the actuator further comprises a housing containing a gas loaded piston having a ski position with the gas compressed, and a release position with the gas released, said piston having a receiver to receive a remote signal and , release the gas, thereby releasing the ski boot by causing the toe piece to move to a larger distance from the heel piece.

6. (Canceled by prior Amendment)

7. (Canceled by prior Amendment)

8. (Cancel)
9. (Amended) The apparatus of claim 3 further comprising a transmitter contained in a ski pole to activate the receiver.
10. (Amended) The apparatus of claim 9, wherein the transmitter further comprises a safety switch to prevent an accidental transmission.
11. (Amended) The apparatus of claim 3 further comprising a mounting plate to house the toe piece, the track, the heel piece and the actuator, said mounting plate having a hole for mounting to a ski.
12. (Canceled by prior Amendment)
13. (Canceled by prior Amendment)
14. (No Change) The improvement of claim 2, wherein the plug blocks an outlet tube which emits a loud noise upon release of the plug.
15. (No Change) The improvement of claim 2, wherein a gas in the compressed gas cylinder further comprises a color to assist locating a lost ski in powder upon the release of the compressed gas.
16. (No Change) The improvement of claim 2 further comprising a CO₂ cartridge connected to the compressed gas cylinder to provide a source of compressed gas.
17. (No change) The improvement of claim 16 further comprising a CO₂ cartridge housing and puncture mechanism to charge the compressed gas cylinder.

18. (Canceled by prior Amendment)
19. (Canceled by prior Amendment)
20. (Cancel)
21. (New) An improvement to a ski binding release system, said ski binding release system having a toe piece and a heel piece to hold a boot, the improvement comprising:
- a track connected to the toe piece;
 - an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal;
 - wherein the actuator further comprises a compressed gas cylinder having a piston connected to the track; and
 - wherein the compressed gas cylinder further comprises a plug which is connected to a linkage, wherein a receiver receives the remote signal and powers the linkage to unplug from the compressed gas cylinder, thereby allowing a spring to move the actuator from a ski position to a release position.
22. (New) The improvement of claim 21, wherein the plug blocks an outlet tube which emits a loud noise upon release of the plug.
23. (New) The improvement of claim 21, wherein a gas in the compressed gas cylinder further comprises a color to assist locating a lost ski in powder upon the release of the compressed gas.
24. (New) The improvement of claim 21 further comprising a CO₂ cartridge connected to the compressed gas cylinder to provide a source of compressed gas.

25. (New) The improvement of claim 24 further comprising a CO₂ cartridge housing and puncture mechanism to charge the compressed gas cylinder.

26. (New) A ski binding release system comprising:
a toe and a heel piece;
a mechanism having an actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal; and
said mechanism having a piston which is spring biased to maintain the mounting distance in a ski position and a gas source to bias the piston to a release position when a ski mounted receiver receives a remote signal.

27. (New) The apparatus of claim 26 further comprising a track suited to receive either the toe or the heel piece, said track connected to the mechanism.

28. (New) A ski binding release system comprising:
a toe and a heel piece;
a mechanism having an actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal; and
said mechanism having a piston which is gas biased to maintain the mounting distance in a ski position and spring biased to a release position when a ski mounted receiver receives a remote signal.

29. (New) The apparatus of claim 28 further comprising a track suited to receive either the toe or the heel piece, said track connected to the mechanism.